

Method and system for network management with topology system  
providing historical topological views

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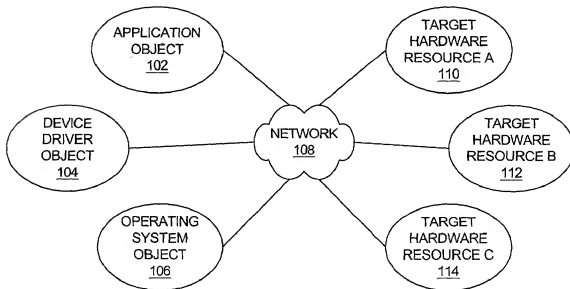


FIG. 1  
(PRIOR ART)

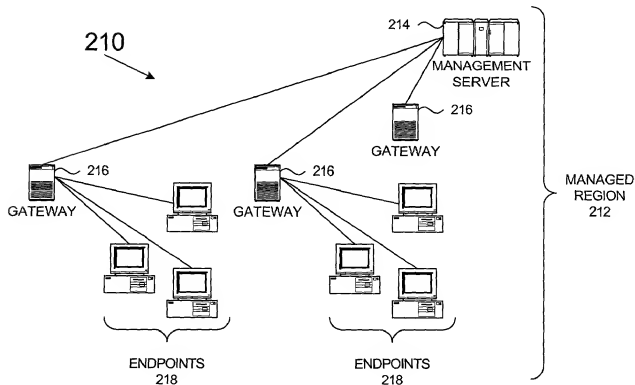


FIG. 2A

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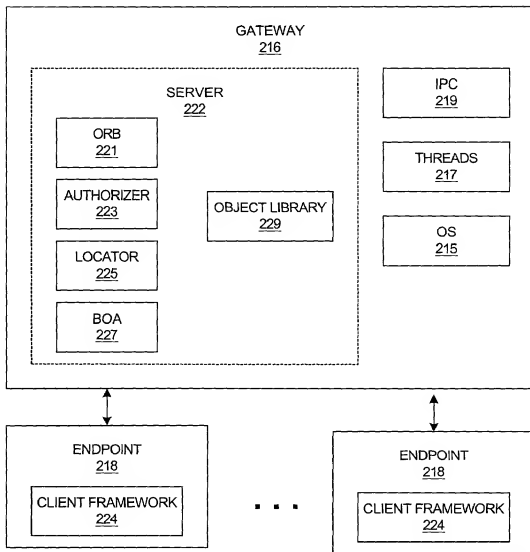


FIG. 2B

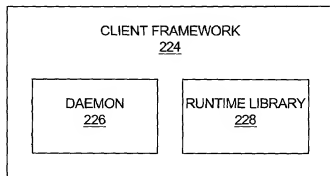


FIG. 2C

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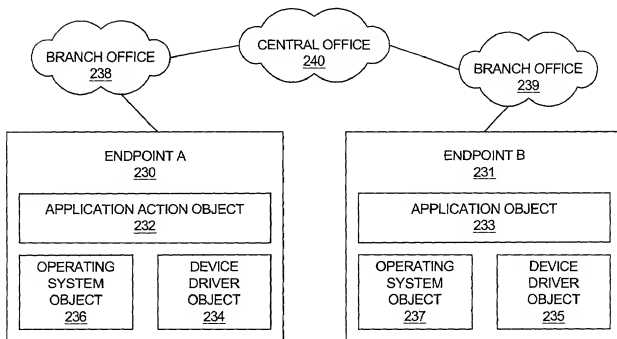


FIG. 2D

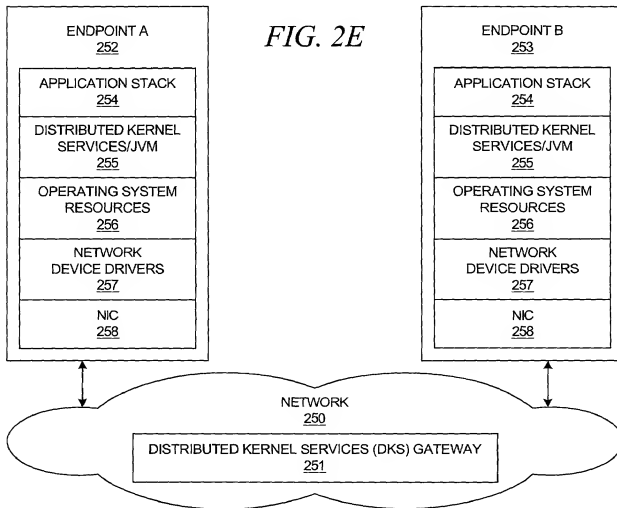


FIG. 2E

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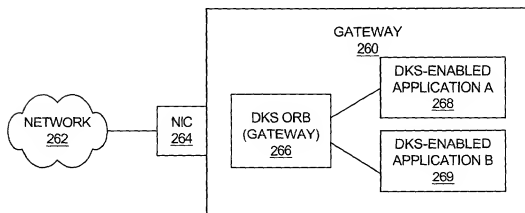


FIG. 2F

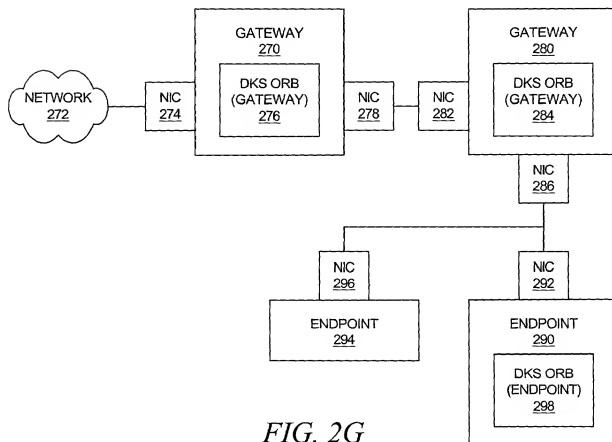


FIG. 2G

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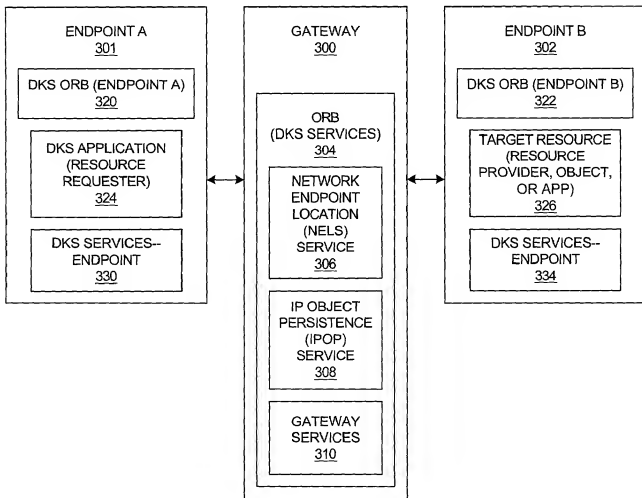


FIG. 3

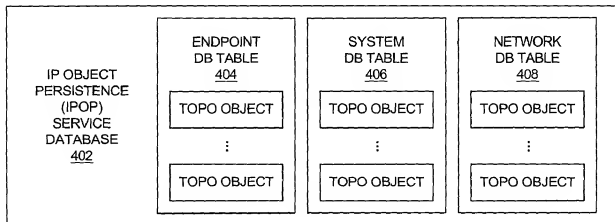
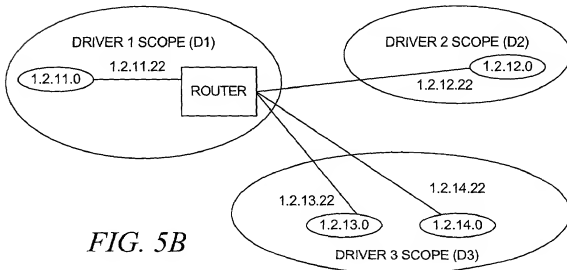
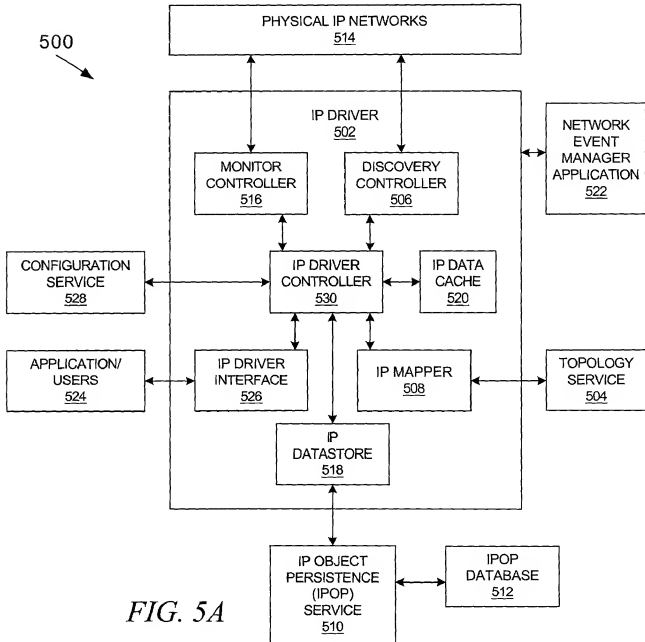


FIG. 4

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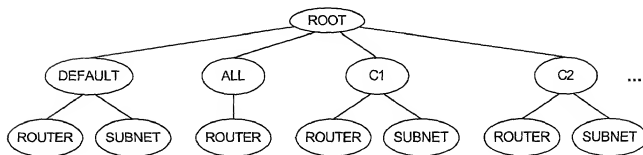


FIG. 5C

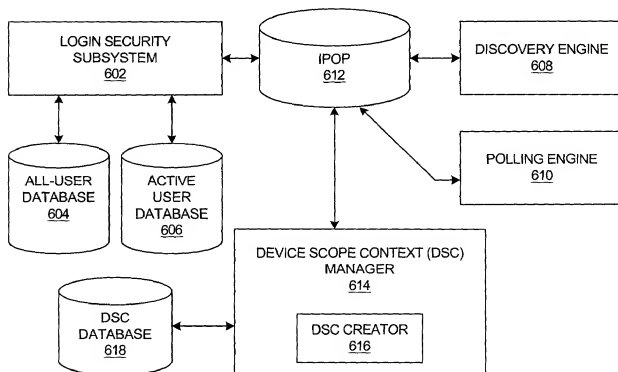


FIG. 6

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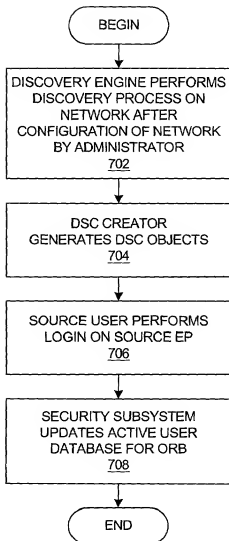


FIG. 7A

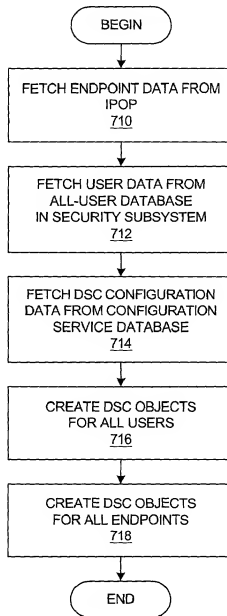


FIG. 7B

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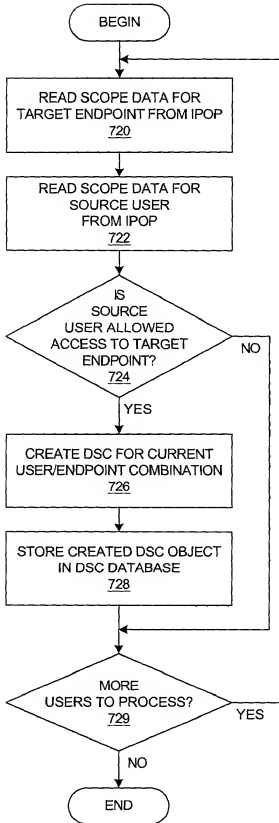


FIG. 7C

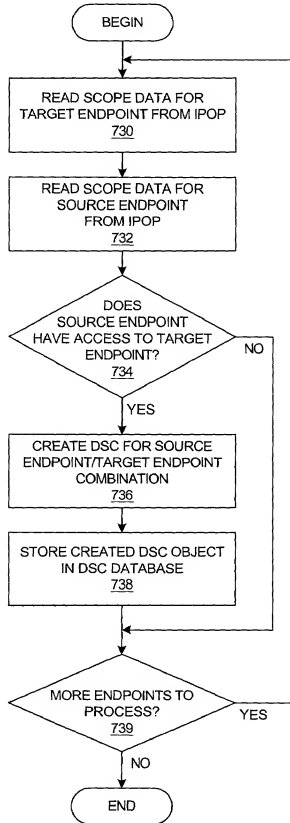


FIG. 7D

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**Network Management Application**

ADAPTIVE MONITORING SETTINGS

POLLING INTERVAL  MINUTES ~ 804

☒ SOURCE USER ~ 805  ~ 806

☐ SOURCE ENDPOINT ~ 807  ~ 808

PRIMARY DSC

☒ BY USER ~ 812

☐ BY ENDPOINT ~ 814

802

810

816 SET

818 CLEAR

FIG. 8A

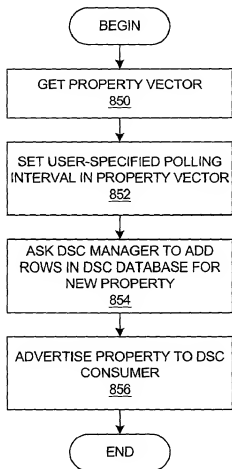


FIG. 8C

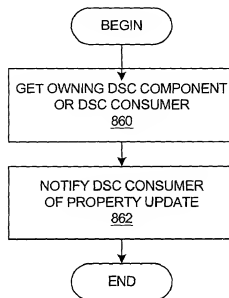


FIG. 8D

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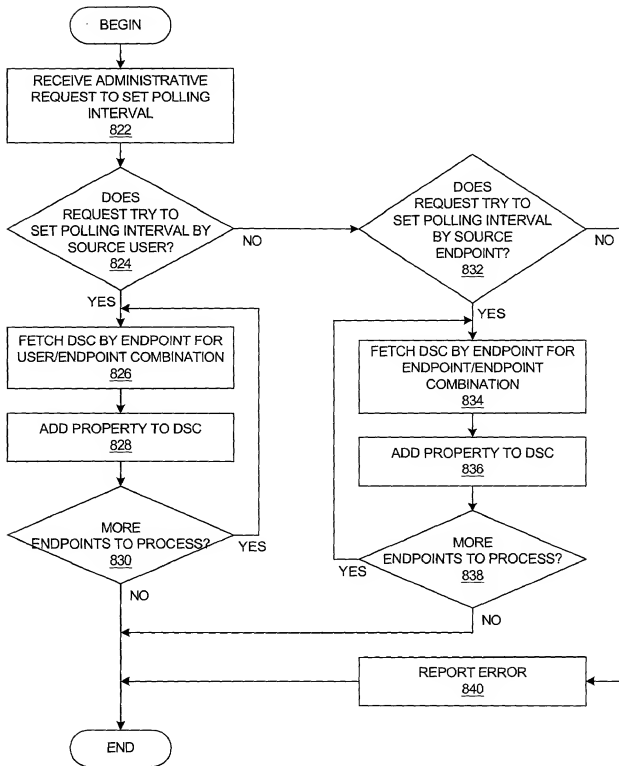


FIG. 8B

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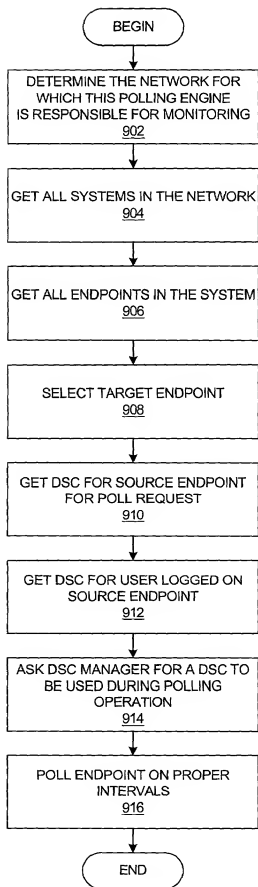


FIG. 9A

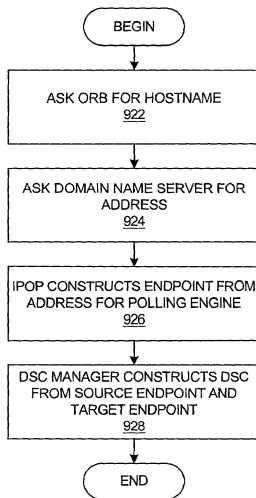


FIG. 9B

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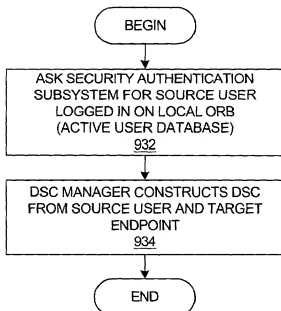


FIG. 9C

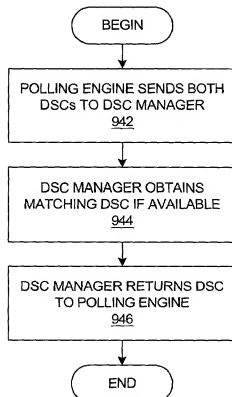


FIG. 9D

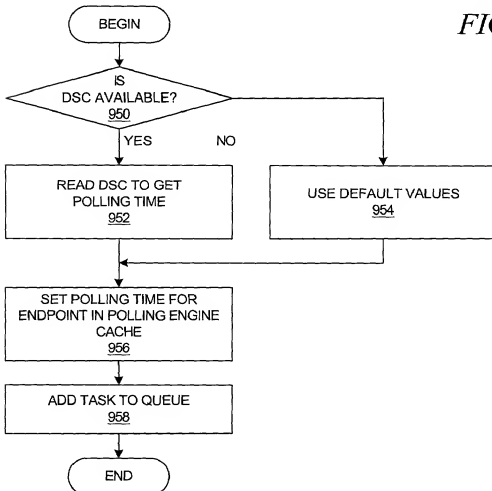


FIG. 9E

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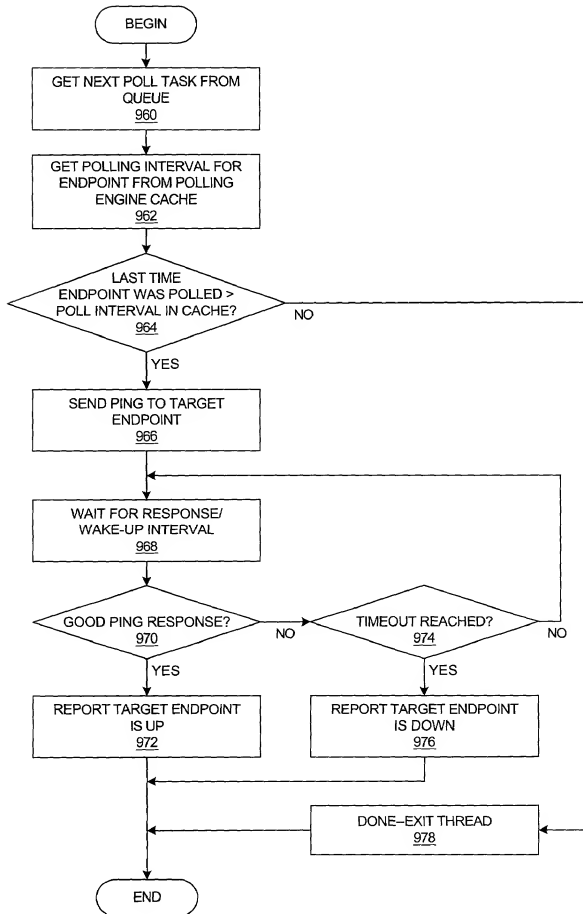


FIG. 9F

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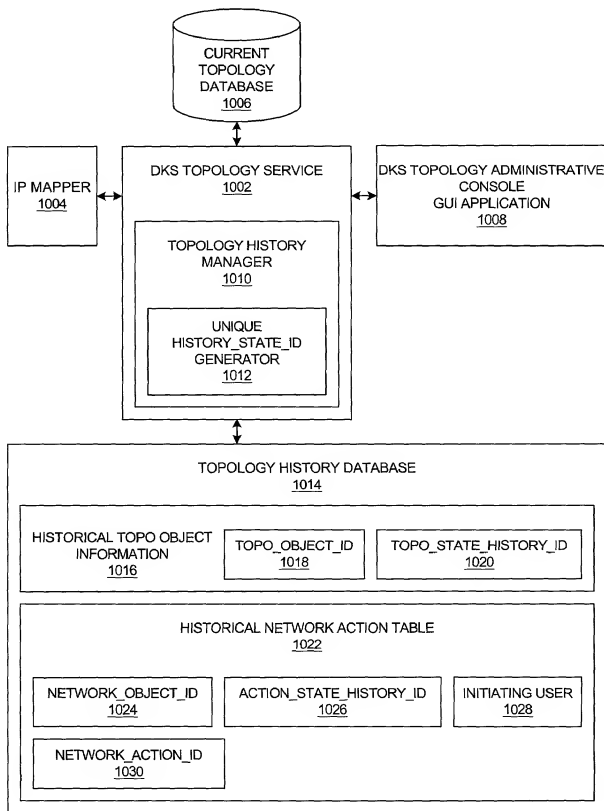


FIG. 10

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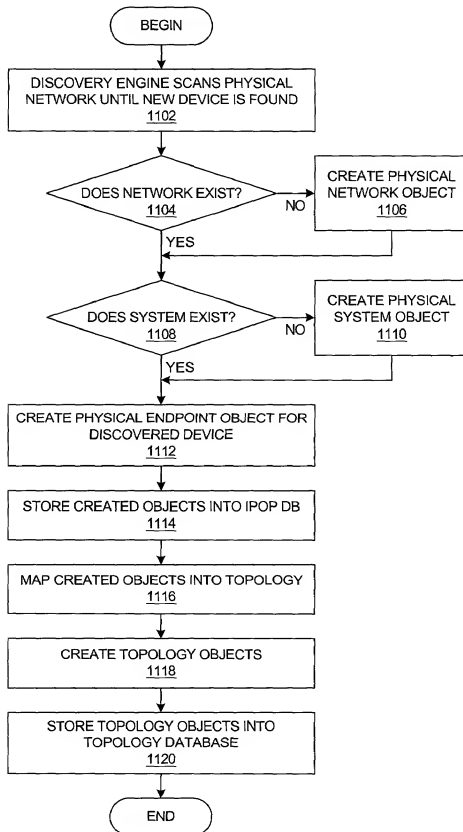


FIG. 11A



FIG. 11B

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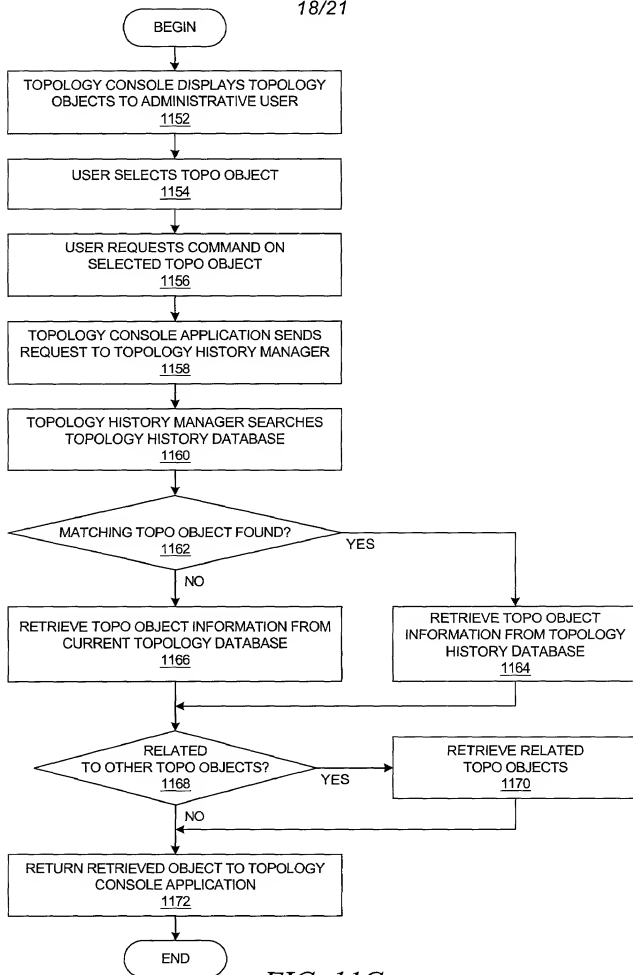


FIG. 11C

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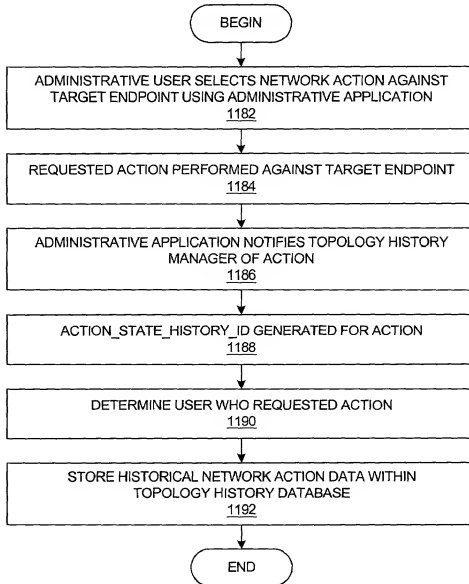


FIG. 11D

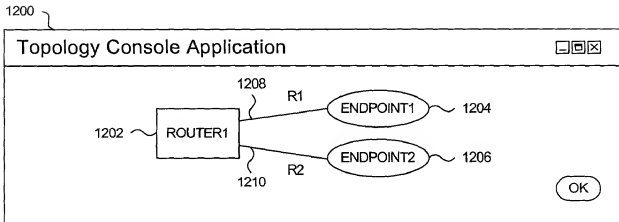


FIG. 12A

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CURRENT TOPOLOGY DATABASE <u>1222</u>	
<u>DESCRIPTION</u>	<u>TOPO OBJECT ID</u>
ROUTER1	001
ENDPOINT1	002
ENDPOINT2	003
RELATION1	004
RELATION2	005

TOPOLOGY HISTORY DATABASE <u>1224</u>	
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FIG. 12B

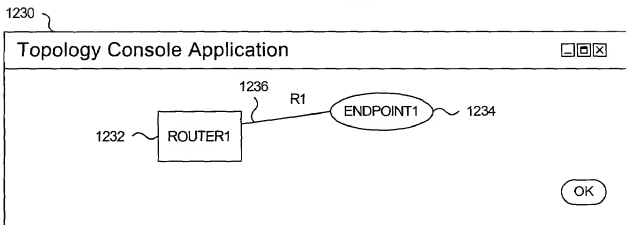


FIG. 12C

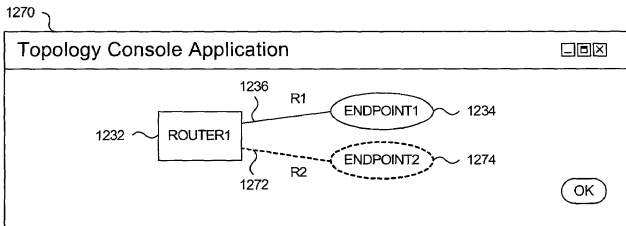


FIG. 12G

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## CURRENT TOPOLOGY DATABASE

1242

<u>DESCRIPTION</u>	<u>TOPO OBJECT ID</u>
ROUTER1	001
ENDPOINT1	002
RELATION2	005

## TOPOLOGY HISTORY DATABASE

1244

<u>DESCRIPTION</u>	<u>TOPO OBJECT ID</u>	<u>TOPO STATE HISTORY ID</u>
ROUTER1	001	001
ENDPOINT1	002	001
ENDPOINT2	003	001
RELATION1	004	001
RELATION2	005	001

FIG. 12D

## HISTORICAL NETWORK ACTION TABLE

1252

<u>ACTION ID</u>	<u>DESCRIPTION</u>	<u>TOPO OBJECT ID</u>	<u>ACTION STATE HISTORY ID</u>	<u>USER</u>
00001	PING	005	0000	JOHN
00002	SNMPQUERY	005	0001	JOHN
00003	UNMANAGE	005	0002	JOHN
00004	MANAGE	005	0003	MARY
00002	SNMPQUERY	005	0004	MARY

FIG. 12E

VIEW ACTION FOR ENDPOINT1 ▼

STATE0: PING ACTION BY JOHN

STATE1: SNMP QUERY ACTION BY JOHN

STATE2: UNMANAGE ACTION BY JOHN

STATE3: MANAGE ACTION BY MARY

STATE4: SNMP QUERY ACTION BY MARY

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FIG. 12F